

Homework - Solve the Same Way

1. For each of the following, find the value of x that makes the equation true. The usual way of wording this instruction is *solve for x* :

(a) $2x = 12$

(b) $-3x = 12$

(c) $ax = b$

2. Solve for x : (a) $2(x - 3) = 4$ (b) $-3(2x + 1) = 5$ (c) $a(bx + c) = d$

3. Often it is necessary to rearrange an equation so that one variable is expressed in terms of others. For example, the equation $D = 3t$ expresses D in terms of t . To express t in terms of D , divide both sides of this equation by 3 to obtain $D/3 = t$.

(a) Solve the equation $C = 2\pi r$ for r in terms of C .

(b) Solve the equation $p = 2w + 2h$ for w in terms of p and h .

(c) Solve the equation $3x - 2y = 6$ for y in terms of x .

4. Solve the equation $A = P + Prt$ for r . Solve the equation $A = P + Prt$ for P .

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